County FIPS and Plant ID/NEDSID:	Reporting Year:
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Facility Name:	DEPAQ19-Residual

## Default Emission Factors for Calculating Hazardous Air Pollutants from Combustion of Residual Fuel Oil

The Maine Dept. of Environmental Protection has determined that facilities firing residual fuel oil release the hazardous air pollutants (HAPs) on this form. In the absence of facility- or SCC-specific emission estimates for these pollutants from your facility's stationary units firing residual fuel, the Maine DEP intends to apply the default emission factors on this form to your facility's annual residual fuel throughput to calculate HAP emissions.

If, in your professional opinion, you believe alternative HAP emission factors are more appropriate, supply them in the columns provided in the table below or add the HAP entry to the appropriate process unit(s) in Satellite i-STEPS, using Emission Estimation Method code 9 (i-STEPS calculated/Local Factor). If you have differing emission factors based on different SCCs and process units burning residual fuel, please make the appropriate Satellite i-STEPS entries or provide those factors on multiple forms. These factors will apply to all SCC units firing residual fuel oil, unless noted here  $\Box$ . SCC(s) to which these emission factors ONLY apply:

POLLUTANT		DEFAULT		ALTERNATIVE	REFERENCE SOURCE OF
CODE	POLLUTANT	FACTOR	FACTOR UNIT	EMISSION FACTOR	EMISSION FACTOR
			Lb per 1000 Gallons of		
7664417	Ammonia	8.000E-1	Residual Oil Burned		
			Lb per 1000 Gallons of		
7440360	Antimony	5.250E-3	Residual Oil Burned		
			Lb per 1000 Gallons of		
7440382	Arsenic	1.320E-3	Residual Oil Burned		
			Lb per 1000 Gallons of		
7440393	Barium	2.570E-3	Residual Oil Burned		
			Lb per 1000 Gallons of		
71432	Benzene	2.140E-4	Residual Oil Burned		
			Lb per 1000 Gallons of		
7440417	Beryllium	2.780E-5	Residual Oil Burned		
			Lb per 1000 Gallons of		
7440439	Cadmium	3.980E-4	Residual Oil Burned		
			Lb per 1000 Gallons of		
7440484	Cobalt	6.020E-3	Residual Oil Burned		
			Lb per 1000 Gallons of		
7440508	Copper	1.760E-3	Residual Oil Burned		
			Lb per 1000 Gallons of		
100414	Ethylbenzene	6.360E-5	Residual Oil Burned		

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CODE	POLLUTANT	FACTOR	FACTOR UNIT	EMISSION FACTOR	EMISSION FACTOR
			Lb per 1000 Gallons of		
50000	Formaldehyde	3.300E-2	Residual Oil Burned		
			Lb per 1000 Gallons of		
7440473	Chromium	8.450E-4	Residual Oil Burned		
			Lb per 1000 Gallons of		
18540299	Chromium (VI)	2.480E-4	Residual Oil Burned		
			Lb per 1000 Gallons of		
7439921	Lead	1.510E-3	Residual Oil Burned		
			Lb per 1000 Gallons of		
7439965	Manganese	3.000E-3	Residual Oil Burned		
			Lb per 1000 Gallons of		
7439976	Mercury	1.130E-4	Residual Oil Burned		
			Lb per 1000 Gallons of		
71556	1,1,1-Trichloroethane	2.360E-4	Residual Oil Burned		
			Lb per 1000 Gallons of		
7440020	Nickel	8.450E-2	Residual Oil Burned		
			Lb per 1000 Gallons of		
95476	o-Xylene	1.090E-4	Residual Oil Burned		
			Lb per 1000 Gallons of		
7723140	Phosphorus (yellow or white)	9.460E-3	Residual Oil Burned		
			Lb per 1000 Gallons of		
83329	Acenaphthene	2.110E-5	Residual Oil Burned		
			Lb per 1000 Gallons of		
208968	Acenaphthylene	2.530E-7	Residual Oil Burned		
			Lb per 1000 Gallons of		
120127	Anthracene	1.220E-6	Residual Oil Burned		
			Lb per 1000 Gallons of		
56553	Benzo (a) anthracene	4.010E-6	Residual Oil Burned		
			Lb per 1000 Gallons of		
191242	Benzo (g,h,i) perylene	2.260E-6	Residual Oil Burned		
50000700	<b>5</b> (1.10)	4 400= 0	Lb per 1000 Gallons of		
56832736	Benzo(b+k)fluoranthene	1.480E-6	Residual Oil Burned		
040045		0.000= 0	Lb per 1000 Gallons of		
218019	Chrysene	2.380E-6	Residual Oil Burned		
	5		Lb per 1000 Gallons of		
53703	Dibenzo(a,h) anthracene	1.670E-6	Residual Oil Burned		

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POLLUTANT		DEFAULT		ALTERNATIVE	REFERENCE SOURCE OF	
CODE	POLLUTANT	FACTOR	FACTOR UNIT	EMISSION FACTOR	EMISSION FACTOR	
206440	Fluoranthene	4.840E-6	Lb per 1000 Gallons of Residual Oil Burned			
200110	- racramarene	110 102 0	Lb per 1000 Gallons of			
86737	Fluorene	4.470E-6	Residual Oil Burned			
			Lb per 1000 Gallons of			
193395	Indeno(1,2,3-cd)pyrene	2.140E-6	Residual Oil Burned			
			Lb per 1000 Gallons of			
91203	Naphthalene	1.130E-3	Residual Oil Burned			
			Lb per 1000 Gallons of			
85018	Phenanthrene	1.050E-5	Residual Oil Burned			
			Lb per 1000 Gallons of			
129000	Pyrene	4.250E-6	Residual Oil Burned			
			Lb per 1000 Gallons of			
7782492	Selenium	6.830E-4	Residual Oil Burned			
			Lb per 1000 Gallons of			
108883	Toluene	6.200E-3	Residual Oil Burned			
			Lb per 1000 Gallons of			
1330207	Isomers of xylene	7.500E-3	Residual Oil Burned			
7440666	Zinc	2.910E-2	Lb per 1000 Gallons of Residual Oil Burned			
I acknowledge that the above emission factors will be used to calculate emissions of hazardous air pollutants at my facility and that the emission totals will be returned to me for my inspection prior to my signing a statement which certifies emissions for the 2005 Annual Air Emissions Inventory.						
Name:				Title:		